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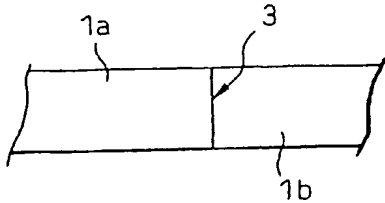
PCT

(10) 国際公開番号
WO 03/055820 A1

- (51) 国際特許分類: C03C 27/10, (74) 代理人: 石田 敬, 外 (ISHIDA, Takashi et al.); 〒105-8423 東京都港区虎ノ門三丁目5番1号虎ノ門3 7 森ビル 青和特許法律事務所 Tokyo (JP).
H01L 21/304, B08B 7/00, G02B 1/10
- (21) 国際出願番号: PCT/JP02/13813
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特願 2001-397799 — 国際調査報告書
2001 年 12 月 27 日 (27.12.2001) JP
- (71) 出願人 および
(72) 発明者: 小貫 英雄 (ONUKI, Hideo) [JP/JP]; 〒305-0031 茨城県つくば市 吾妻 2-8 2 O-5 Ibaraki (JP).
2 文字コード及び他の略語については、定期発行される各 PCT ガゼットの巻頭に掲載されている「コードと略語のガイダンスノート」を参照。

(54) Title: METHOD FOR ADHERING TRANSPARENT ARTICLES AND QUARTZ GLASS PLATE PREPARED THROUGH ADHESION AND DEVICE USING THE SAME

(54) 発明の名称: 透明物質の接着方法及び接着された石英ガラス板とそれを用いた装置



(57) Abstract: A method for adhering two pieces of a substance transparent to a short wave length ultraviolet light, such as two plates of quartz glass, which comprises using an alkoxide as a material for adhesion and irradiating a portion to be adhered with an ultraviolet light. The method can be practiced at room temperature with ease and allows the transmission of a light having a short wave length to the limit inherent in the substance used, such as quartz, and thus can be used for producing a quartz glass plate having a large area through adhering plural quartz glass plates in a transverse direction. The quartz glass plate having a large area can be utilized, in a light cleaning device, as a window partitioning a light source section and a cleaning chamber.

(57) 要約:

短波長紫外光に対し透明な物質とりわけ石英ガラス板など同士の接着を、室温で簡便に実施し、石英ガラスなどの固有の短波長の限界まで光を透過することができる接着方法として、アルコキシドを接着材料とし、接着部分に紫外光を照射することにより、2つの物質を接着する。石英ガラス板を横方向に接着して大面積の石英ガラス板を製造できる。その大面積の石英ガラス板は、光洗浄装置の光源部と洗浄室とを仕切る窓として利用できる。



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP02/13813

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ C03C27/10, H01L21/304, B08B7/00, G02B1/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ C03C27/00-29/00, H01L21/304, B08B7/00, G02B1/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1926-1996	Toroku Jitsuyo Shinan Koho	1994-2003
Kokai Jitsuyo Shinan Koho	1971-2003	Jitsuyo Shinan Toroku Koho	1996-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

JOIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 10-282339 A (Director General, Agency of Industrial Science and Technology, et al.), 23 October, 1998 (23.10.98), Claims; Par. Nos. [0022] to [0024] (Family: none)	1-3
Y	JP 10-282499 A (Director General, Agency of Industrial Science and Technology, et al.), 23 October, 1998 (23.10.98), Claims; Par. Nos. [0064] to [0068] (Family: none)	1-3
Y	JP 5-251415 A (Hamamatsu Photonics Kabushiki Kaisha), 28 September, 1993 (28.09.93), Claims (Family: none)	3



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier document but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search
01 April, 2003 (01.04.03)Date of mailing of the international search report
15 April, 2003 (15.04.03)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

PCT

NOTICE INFORMING THE APPLICANT OF THE
COMMUNICATION OF THE INTERNATIONAL
APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

To:

ISHIDA, Takashi
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JAPON

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IMPORTANT NOTICE

Date of mailing(day/month/year)
10 July 2003 (10.07.03)Applicant's or agent's file reference
K927-PCTInternational application No.
PCT/JP02/13813International filing date(day/month/year)
27 December 2002 (27.12.02)Priority date(day/month/year)
27 December 2001 (27.12.01)Applicant
)

1. Notice is hereby given that the International Bureau has **communicated**, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this notice:

EP, KR, US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

CN

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

3. Enclosed with this notice is a copy of the international application as published by the International Bureau on 10 July 2003 (10.07.03) under No. 03/055820

4. **TIME LIMITS for filing a demand for international preliminary examination and for entry into the national phase**

The applicable time limit for entering the national phase will, **subject to what is said in the following paragraph**, be **30 MONTHS** from the priority date, not only in respect of any elected Office if a demand for international preliminary examination is filed before the expiration of **19 months** from the priority date, but also in respect of any designated Office, in the absence of filing of such demand, where Article 22(1) as modified with effect from 1 April 2002 applies in respect of that designated Office. For further details, see *PCT Gazette* No. 44/2001 of 1 November 2001, pages 19926, 19932 and 19934, as well as the *PCT Newsletter*, October and November 2001 and February 2002 issues.

In practice, **time limits other than the 30-month time limit** will continue to apply, for various periods of time, in respect of certain designated or elected Offices. For **regular updates on the applicable time limits** (20, 21, 30 or 31 months, or other time limit), Office by Office, refer to the *PCT Gazette*, the *PCT Newsletter* and the *PCT Applicant's Guide*, Volume II, National Chapters, all available from WIPO's Internet site, at <http://www.wipo.int/pct/en/index.html>.

For filing a **demand for international preliminary examination**, see the *PCT Applicant's Guide*, Volume I/A, Chapter IX. Only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination (at present, all PCT Contracting States are bound by Chapter II).

It is the applicant's **sole responsibility** to monitor all these time limits.

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Authorized officer

Judith Zahra

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